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MSDS Information

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Section 1. CHEMICAL PRODUCT SECTION

Product Name: Silicone Free Heat Sink Compound

Product Number: 1978

General Use:

Product Description:

MANUFACTURER: Tech Spray, Inc.
P.O. Box 949
Amarillo, TX 79105-0949
PHONE: 806/372-8523
FAX: 806/372-8750

For Chemical Emergency, Spill, Leak, Fire Exposure, or Accident Call CHEMTREC DAY OR NIGHT 1-800-424-9300.

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Section 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL	C.A.S. Number	Weight %
This product does not contain any hazardous ingredients as per OSHA 29 CFR 1910.1200 Subpt.(z).		
Zinc Oxide, USP	1314-13-2	< 70
00840600 Trade Secret # 5000P		
00840600 Trade Secret # 5001P		
00840600 Trade Secret # 5002P		
Trade Secret Registered with State of New Jersey.		
Zinc oxide in paste form and does not exhibit a dust hazard		

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

	Exposure Limits 8 Hours TWA (PPM)		
	OSHA PEL	ACGIH TLV	Supplier
Zinc Oxide, USP	OSHA TWA 5 mg/m3		
does not exhibit a dust hazard			

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Section 3. HAZARD IDENTIFICATION

Emergency Overview:

Potential Health Effects:

INHALATION: Product does not contain any volatile compounds.

EYES: Mild irritation.

SKIN: Very mild, if any, irritation.

INGESTION: Nausea and diarrhea are possible.

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Section 4. FIRST AID MEASURES

Inhalation:

Move to fresh air in case of accidental inhalation of vapors. If victim has stopped breathing, give artificial respiration. Call for prompt medical attention.

Eye Contact:

Flush eyes with large amounts of water for 15 minutes or until irritation subsides. If irritation persists, get medical attention.

Skin Contact:

Remove contaminated clothing (including shoes) and wash before reuse. Flush with large amounts of water. Use soap if available. If irritation persists, seek medical attention.

Ingestion:

Do not induce vomiting unless directed by a physician. If conscious and alert, give two glasses of water. Seek medical attention immediately.

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Section 5. FIRE FIGHTING MEASURES

Flash Point & Method: 565 F, COC Metho

Flammable Limits: LEL: NA UEL: NA

Autoignition Temperature:

GENERAL HAZARD:

None

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear self contained positive-pressure breathing apparatus.

FIRE FIGHTING EQUIPMENT:

Water, foam, dry chemical, carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes and oxides of carbon.

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Section 6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Pick up and place in appropriate container.

WATER SPILL:

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Section 7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

GENERAL:

Keep container closed when not in use. Store in cool, well ventilated

place out of direct sunlight and away from incompatible materials. (See STABILITY AND REACTIVITY Section 10.) Follow all MSD Sheet and Label warnings even after container is emptied.

Section 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls:

(X) General Ventilation acceptable
( ) Local Exhaust ventilation acceptable.
( ) Mechanical ventilation recommended.
( ) Use explosion-proof ventilation equipment.
( ) Do not use in confined spaces without mechanical ventilation equipment.

See section 2 for component exposure guidelines.

Personal Protection:

RESPIRATOR:

If concentrations are over the exposure limit and are known, air purifying respirator with Organic Vapor Cartridges may be acceptable. Refer to cartridges for acceptable levels. If concentrations are over exposure limit and are unknown, use a supplied air respirator.

HAND PROTECTION:

(X) Gloves recommended

(X) Solvex	(X) Neoprene
(X) Butyl	(X) Buna
(X) Natural Latex	(X) Cotton/Jersey

EYE PROTECTION:

(X) Safety Glasses ( ) Chemical Goggles ( ) Full Face Shield

OTHER RECOMMENDATIONS:

( ) Rubber Boots ( ) Splash-proof chemical resistant suit/apron

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Density	2.7 g/ml	pH	NA
Boiling Point	476 C / 889F	% Volatile	0
Freezing Point	NIF	% Solids	100
Vapor Density (Air=1):	NE	Evaporation Rate (H2O=1)	NE
Solubility in Water	0	Viscosity	N/A
Molecular Weight	N/A	Physical State	LIQUID
Non-Exempt VOC (g/l)	0	Odor	None

Appearance: Opaque white cream with low odor.

Section 10. STABILITY AND REACTIVITY

GENERAL:

STABLE

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:
None
None
HAZARDOUS DECOMPOSITION:
None Known

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Section 11. TOXICOLOGICAL INFORMATION

RESULTS OF COMPONENT TOXICITY TEST PERFORMED:
Information not available.

HUMAN EXPERIENCE:
Information not available.

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Section 12. ECOLOGICAL INFORMATION

FURTHER INFORMATION:
Information not available.

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Section 13. DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 Classification:

Federal, State, and Local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

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Section 14. TRANSPORTATION INFORMATION

U.S. DOT Information
Proper Shipping Name: NON HAZARDOUS MATERIAL
Hazard Class: N/A
Packaging Group: N/A
UN Number: N/A
Limitations: N/A

IATA
Proper Shipping Name: NON HAZARDOUS MATERIAL
Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Limitations: N/A

IMO
Proper Shipping Name: NON HAZARDOUS MATERIAL
Class: N/A
UN Number: N/A
Packaging Group: N/A
EMS: N/A
MFAG: N/A
Marine Pollutant: N/A
Canadian TDG: N/A

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Section 15. REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS:

MSDS complies with OSHAs Hazard Communication Rule, 29 CFR 1910.1200.

CERCLA/SUPERFUND, 40 CFR 117, 302:

--- None of the chemicals are Superfund hazards ---

SARA SUPERFUND AND REAUTHORIZATION ACT OF 1986

TITLE III Sections 302, 311, 312 and 313:

Section 302 - Extremely hazardous substances (40 CFR 355):

--- None of the chemicals are Section 302 hazards ---

Section 311/312 - Material Safety Data Sheet Requirements (40 CFR 370)

(X) By our hazard evaluation, this product is non-hazardous.

( ) By our hazard evaluation, this product is hazardous. It should be reported under the following EPA hazard.

( ) Immediate (acute) health hazard

( ) Delayed (chronic) chronic health hazard

( ) Sudden release of pressure hazard

( ) Reactive hazard

Section 313 - List of Toxic Chemicals (40 CFC 372)

This product contains the following chemicals (at levels of 1% or greater) which are found on the 313 list of Toxic Chemicals.

CHEMICAL	C.A.S. NUMBER	WEIGHT %
--- None of the chemicals are 313 Toxic Chemicals ---		

TOXIC SUBSTANCE CONTROL ACT (TSCA): All substances are TSCA Listed.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA 40 CFR 261) Subpart C & D:

Refer to Section 11. for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (FORMERLY SECTION 307), 40 CFR 116 (FORMERLY SECTION 311)

This product contains the following chemicals which are listed:

CHEMICAL	C.A.S. NUMBER	WEIGHT %

CLEAN AIR ACT: --- No Information ---

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product contains the following ingredients which appear on the California proposition 65 list:

CHEMICAL	C.A.S. NUMBER	WEIGHT %
--- None of the chemicals are on the Proposition 65 list ---		

INTERNATIONAL REGULATIONS:

CANADA WHMIS: NIF

EUROPE EINECS NUMBERS: NIF

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Section 16. OTHER INFORMATION

LABEL INFORMATION:

European risk and Safety Phrases: NIF
European Symbols Needed: NIF
Canadian WHIMS Symbols: NIF

NFPA HAZARD RATING:

(0) Fire (0) Health (0) Reactivity

REVISION DATES, SECTIONS, REVISED BY:

27-JLY-94, CONVERTED TO ANSI STANDARD, B. RIFFEL
11-APR-95, REVISED Section 311/312 Information, J. WITCHER
06-NOV-97, Reviwed, B. Riffel
19-FEB-99, Revised Section 8, B. Riffel
18-FEB-02, Reviewed S. Cook

ABBREVIATIONS USED IN THIS DOCUMENT:

NE - Not Established, NA - Not Applicable, NIF - No Information Found

REFERENCES:

Code of Federal Regulations (CFR)
The Sigma-Aldrich Library of Regulatory and Safety Data
Chemical Guide and OSHA Hazard Communication Standard
Various Federal, State & Local Regulations

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